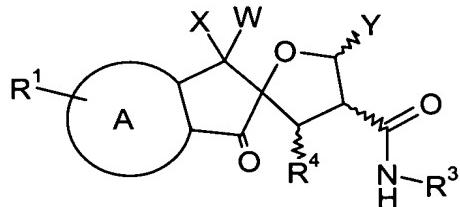


**WE CLAIM**

1. A compound of formula (I), or an enantiomer or diastereoisomer thereof:



(I)

wherein:

$A$  is a 5- or 6-membered carbocyclic ring;

$X$  is H and  $W$  is OH; or  $X$  and  $W$  together form a carbonyl group or an epoxide;

$R^1$  is H; or one or two substituents independently selected from the group consisting of: hydroxy; halo; lower alkyl; lower alkoxy; lower thioalkyl; haloalkyl (e.g. trifluoromethyl); or  $-C(O)R^2$  wherein  $R^2$  is lower alkyl, aryloxy or benzyloxy;

$Y$  is phenyl optionally mono- or di-substituted with  $R^5$  or  $C(O)R^6$ , wherein  $R^5$  is lower alkyl, lower cycloalkyl, lower alkoxy, halo, hydroxy, nitrile or trifluoromethyl, and  $R^6$  is lower alkyl, lower cycloalkyl, lower alkoxy, hydroxy or trifluoromethyl; said phenyl ring being optionally fused with a saturated or unsaturated 4 to 6-membered carbocyclic ring;

or  $Y$  is ethylene-phenyl, said ethylene moiety being optionally mono-substituted with lower alkyl, wherein said phenyl ring is optionally mono- or di-substituted with  $R^5$  or  $C(O)R^6$ , wherein  $R^5$  and  $R^6$  are as defined above; said phenyl ring being optionally fused with a saturated or unsaturated 4 to 6-membered carbocyclic ring;

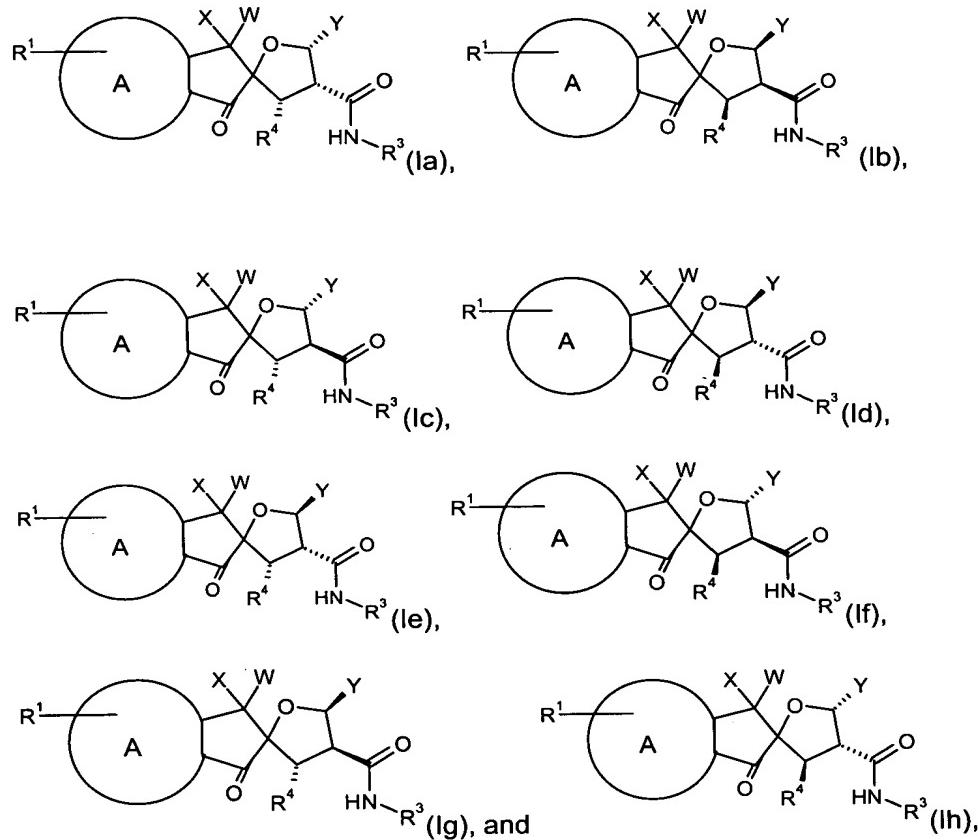
$R^3$  is selected from the group consisting of: aryl, mono- or di-substituted with:

Het, said Het optionally mono- or di-substituted with lower alkyl, lower cycloalkyl, lower alkoxy, halo, hydroxy, nitrile, trifluoromethyl,  $C(O)R^6$  wherein  $R^6$  is as defined above; wherein each Het is independently a five- or six-membered, unsaturated heterocycle containing from one to three heteroatoms selected from nitrogen, oxygen and sulfur; said Het being optionally fused with a saturated or unsaturated 4 to 6-membered ring

optionally containing a heteroatom selected from N, O and S;  
and

$R^4$  is a carboxylic acid, a salt or an ester thereof.

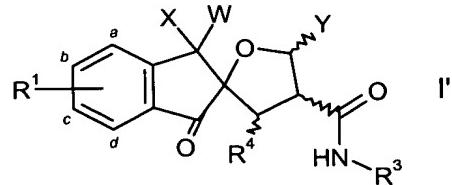
2. A compound selected from:



wherein A, X, R<sup>1</sup>, Y, R<sup>3</sup>, and R<sup>4</sup> are as defined in claim 1.

3. A mixture of compound I(a) and compound I(b), each according to claim 2.

4. A mixture of compound I(c) and compound I(d), each according to claim 2.
5. A compound mixture according to claim 3, wherein said mixture is racemic.
6. A compound mixture according to claim 4, wherein said mixture is racemic.
7. A compound I(a) according to claim 2, as a pure enantiomer.
8. A compound I(b) according to claim 2, as a pure enantiomer.
9. A compound I(c) according to claim 2, as a pure enantiomer.
10. A compound I(d) according to claim 2, as a pure enantiomer.
11. A compound according to claim 1 wherein X is H and W is OH; or X and W form a carbonyl group.
12. A compound according to claim 9 wherein X and W form a carbonyl group.
13. A compound according to claim 1 wherein ring A is a benzene ring, as represented by the formula I':



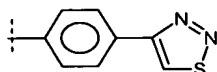
wherein X, R<sup>1</sup>, W, Y, R<sup>3</sup>, and R<sup>4</sup> are as defined in claim 1.

14. A compound according to claim 1, wherein R<sup>1</sup> is H; or one or two substituents independently selected from the group consisting of: hydroxy; halo; lower alkyl; lower alkoxy; lower thioalkyl; haloalkyl; or -C(O)R<sup>2</sup> wherein R<sup>2</sup> is lower alkyl, aryloxy or benzyloxy.
15. A compound according to claim 14, wherein R<sup>1</sup> is H, halo or C<sub>1-4</sub> alkyl.
16. A compound according to claim 15, wherein R<sup>1</sup> is H, fluoro or methyl.
17. A compound according to claim 16, wherein R<sup>1</sup> is H or methyl.
18. A compound according to claim 1, wherein Y is phenyl optionally mono- or di-substituted with R<sup>5</sup> or C(O)R<sup>6</sup>, wherein R<sup>5</sup> is lower alkyl, lower cycloalkyl, lower alkoxy, halo, hydroxy, nitrile or trifluoromethyl, and R<sup>6</sup> is lower alkyl, lower cycloalkyl, lower alkoxy, hydroxy or trifluoromethyl; said phenyl ring being optionally fused with a saturated or unsaturated 4 to 6-membered carbocyclic ring; or Y is ethylene-phenyl, said ethylene moiety being optionally mono-substituted with lower alkyl, wherein said phenyl ring is optionally mono- or di-substituted with R<sup>5</sup> or C(O)R<sup>6</sup>, wherein R<sup>5</sup> and R<sup>6</sup> are as defined above; said phenyl ring being optionally fused with a saturated or unsaturated 4- to 6-membered carbocyclic ring.
19. A compound according to claim 18, wherein Y is naphthyl, CH=CH-phenyl, C(CH<sub>3</sub>)=CH-phenyl or phenyl, wherein the phenyl ring is optionally mono- or di-substituted at the 3, 4, or 5 position with R<sup>5</sup>, wherein R<sup>5</sup> is halo, C<sub>1-4</sub> alkyl, hydroxy, CF<sub>3</sub> or NHC(O)-(lower alkyl).
20. A compound according to claim 19, wherein Y is phenyl optionally substituted with: 3,4-Cl; 3-F,4-Cl; 3-Cl,4-F; 3,4-Br; 3-F,4-CH<sub>3</sub>; 3,4-CH<sub>3</sub>; 3-CF<sub>3</sub> or NHC(O)-

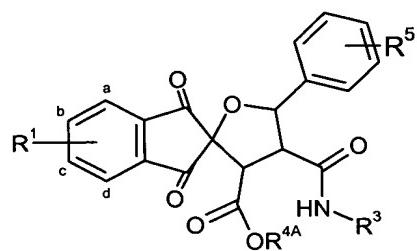
$(CH_2)_3CH_3.$

21. A compound according to claim 20, wherein Y is phenyl optionally substituted with: 3,4-Cl or 3,4-Br.

22. A compound according to claim 1, wherein R<sup>3</sup> is:



23. A compound selected from the group consisting of: compounds having the following formula:



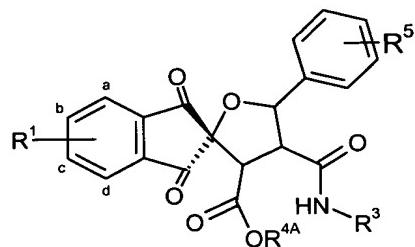
, wherein R<sup>4A</sup>, R<sup>1</sup>, R<sup>5</sup> and R<sup>3</sup> are as defined as follows:

Cpd #	R <sup>4A</sup>	R <sup>1</sup>	--R <sup>5</sup>	--R <sup>3</sup>	
1028	Na	--	3,4-Cl		;
1052	Na	--	3,4-Cl		;

Cpd #	R <sup>4A</sup>	R <sup>1</sup>	--R <sup>5</sup>	--R <sup>3</sup>
1076	Na	--	3,4-Br	
1083	Na	--	3,4-F	

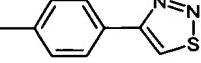
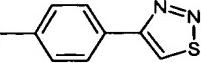
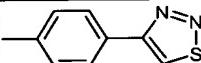
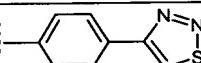
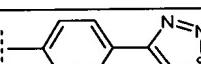
; and

24. A compound selected from the group consisting of: compounds having the following formula:

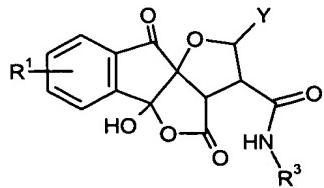


wherein R<sup>4A</sup>, R<sup>1</sup>, R<sup>5</sup>, and R<sup>3</sup> are as defined as follows:

Cpd #	R <sup>4A</sup>	R <sup>1</sup>	--R <sup>5</sup>	--R <sup>3</sup>
A1001	Na	--	3,4-Br	 stereochemistry undetermined
A1002	Na	--	3,4-Br	 stereochemistry undetermined
A1006	Na	mixture b-Me & c-Me	3,4-Cl	 stereochemistry undetermined

Cpd #	R <sup>4A</sup>	R <sup>1</sup>	--R <sup>5</sup>	--R <sup>3</sup>	
A1007	Na	b-Me	3,4-Cl		; stereochemistry undetermined
A1008	Na	c-Me	3,4-Cl		; stereochemistry undetermined
A1009	Na	mixture b-Me & c-Me	3,4-Br		; stereochemistry undetermined
A1010	Na	b-Me	3,4-Br		; and
A1011	Na	c-Me	3,4-Br		.

25. A compound having the following formula:



wherein R<sup>1</sup>, Y, and R<sup>3</sup> are as defined as follows:

Cpd #	R <sup>1</sup>	-Y	--R <sup>3</sup>
3013	c-Me		

26. A pharmaceutical composition comprising an anti-papillomavirus virally effective amount of a compound of formula (I), according to claim 1, or a therapeutically acceptable salt or ester thereof, in admixture with a pharmaceutically acceptable carrier medium or auxiliary agent.

27. A method for treating a papillomavirus viral infection in a mammal by administering to the mammal an anti-papilloma virus virally effective amount of a compound of formula (I), according to claim 1, or a therapeutically acceptable salt or ester thereof, or a pharmaceutical composition comprising an anti-papillomavirus virally effective amount of a compound of formula (I) according to claim 1, or a therapeutically acceptable salt or ester thereof, in admixture with a pharmaceutically acceptable carrier medium or auxiliary agent.

28. A method for inhibiting the replication of papillomavirus by exposing the virus to an amount of a compound of formula (I), according to claim 1 inhibiting the papilloma virus E1-E2-DNA complex, or a therapeutically acceptable salt or ester thereof, or a

composition comprising an anti-papillomavirus virally effective amount of a compound of formula (I) according to claim 1, or a therapeutically acceptable salt or ester thereof, in admixture with a pharmaceutically acceptable carrier medium or auxiliary agent.

29. A method of preventing perinatal transmission of HPV from mother to baby, by administering a compound of formula (I), according to claim 1, to the mother prior to giving birth.